



DEPARTMENT OF THE ARMY  
OFFICE OF THE PROJECT MANAGER FOR TRAINING DEVICES  
17034 RESEARCH PARKWAY  
ORLANDO, FLORIDA 32816-3274

REF ID:  
ATTENTION CP.


MEMORANDUM OF AGREEMENT  
BETWEEN

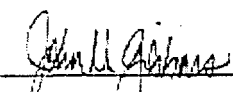
U.S. ARMY'S PROJECT MANAGER TRAINING DEVICES (PM TRADE),  
U.S. AIR FORCE RANGE INSTRUMENTATION SYSTEMS PROGRAM OFFICE  
(RISPO),

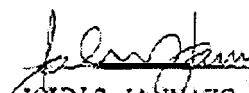
HEADQUARTERS PACIFIC COMMAND-AIR FORCE (PACAF),  
AND

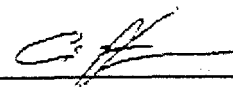
U.S. ARMY ALASKA (USARAK)  
FOR

INTEGRATION OF THE POSITION LOCATION MULTIPLE INTEGRATED LASER  
ENGAGEMENT SYSTEM (MILES) 2000 INTO COPE THUNDER

 Date 17 Jul 00  
J. MARK VAUGHN  
LTC, GS  
Director of Plans, Training,  
Security and Mobilization

 Date 29 Dec 00  
JOHN M. GIBBONS  
Colonel, USAF  
Chief, Operational Requirements Division

 Date 19 May 00  
JOHN D. JANNAZO  
LTJCOL, USAF  
Director, Range Instrumentation  
Systems Program Office

 Date 30 Mar 00  
CRAIG B. HANFORD  
COL, AV  
Project Manager Training Devices

- e. STRICOM has an ongoing competitively awarded contract to procure MILES 2000 from Cubic Defense Systems. Ft Richardson is on the MILES 2000 program distribution plan. USARAK controls the MILES 2000 for all Alaska.
- f. Position location and MILES 2000 event data transmission from the MILES 2000 Manwom System are not covered under the current contract. The public was informed of PM TRADE's intent to modify the current Manwom System configuration for this program via a sole source procurement to Cubic Defense Systems published in the 26 March 99 CBD. The Justification and Approval for Other than Full and Open Competition was approved on 27 August 1999.

#### 4. Responsibilities:

- a. USARAK, as the user of the MILES 2000 Tactical Engagement System will:
  - (1) Fund any logistics cost associated with data transfer/d&a transmission from Eielson AFB to Ft Wainwright.
  - (2) Assume property accountability and management responsibility upon receipt for all applicable MILES 2000 hardware components except for the 30 Global Positioning Systems (GPS) Manwom location packs.
  - (3) Perform limited troubleshooting, maintenance, and minor repair (limited to cleaning, external battery replacement and running Built-in-Test) as delineated in the technical manuals.
  - (4) Designate a point of contact at HQ, USARAK, to interface with STFUCOM Logistics to perform administrative and liaison functions as determined necessary for fielding and sustainment.
  - (5) Host fielding conferences as required.
  - (6) Coordinate with Army Training Support Center (ATSC) for redistribution of basic MILES items replaced by the MILES 2000 fielding.
  - (7) Notify all program participants, should resource constraints or other circumstances reduce the capability to support program requirements.
- b. PACAF, as the author of the US AF requirements, will :
  - (1) Coordinate with Eielson AFB for the fielding, integration and test of the program hardware.
  - (2) Provide in conjunction with Eielson AFB for the logistic support of Combat

1. **Purpose:** This Memorandum of Agreement (MOA) establishes the terms and conditions for the integration of position location Multiple Integrated Laser Engagement System (MILES) 2000, instrumentation of Joint Combat Search and Rescue (JCSAR) assets, and merging of MILES 2000 and Cope Thunder data for display and debriefing. The agreement outlines the U.S. Air Force (USAF) Range Instrumentation System Program Office (RISPO), U.S. Army Alaska (USARAK), Pacific Air Force (PACAF) Operational Requirements Division (PACAF/DOQ), and Project Manager Training Devices (PM TRADE) working relationship.
2. **Scope:** This MOA defines the mutual agreement between PM TRADE, USAF RISPO, PACAF, and Ft Wainwright regarding the fielding of MILES 2000 position location devices and helicopter position location devices, integration of the devices into the existing Cope Thunder infrastructure, and support of these devices. This MOA covers the MILES 2000 activities during the course of Contract N61339-95-C- 0033.
3. **Background:** Congress funded the FY 99 Army Training Mission Area to procure MILES 2000 for Cope Thunder. A coordination meeting was held in Jan 99 between PM TRADE, Army Training Support Center (ATSC), USARAK DCSOPS, USARPAC DCSOPS Training, and 353rd Combat Training Squadron.
  - a. Cope Thunder is a realistic, 10-day air combat training exercise typically held four times a year. Each exercise is designed to evaluate multi-unit, multi-service coordinated, mock-combat operations and is structured to correspond to the designed operational capability of participating units. Exercises often involve several units whose military mission may differ significantly from that of other units participating.
  - b. July 99, PACAF Director of Operations approved integration of Army MILES 2000 equipment into Alaska ranges. This integrated capability would be used to support Combat Search and Rescue (CSAR) for Cope Thunder/Northern Edge. Required integration of up to 35 P/L equipped MILES 2000 and three to six aircraft. This capability would also be used to support (initially) a USARAK Infantry company team with a platoon sized opposing force during Cope Thunder/Northern Edge.
  - c. US ARMY REQUIREMENT: HQ USA Training and Doctrine Command (USATRADO) published a MILES 2000 Cope Thunder Requirement Jun 99.
  - d. MILES 2000 DEVICES: MILES 2000 devices are used to simulate the direct fire effects and simulate signature effects of actual weapon systems primarily during force-on-force (FOF) exercises from squad through brigade level. The MILES 2000 system like its predecessor "Basic MILES" is a family of low power, eye-safe laser transmitters and receivers designed to simulate the operational characteristics of various weapons.

c. PM TRADE, as the procurement lead for the MILES 2000 Tactical Engagement Simulation System will:

- (1) Procure the MILES devices listed in the MILES 2000 Cope Thunder requirement. Manage and coordinate the acquisition, fielding, engineering, production, and life cycle support activities involved with the MILES 2000 portion of this program.
- (2) Keep all parties advised of any funding shortfalls after award of the non-recurring portion of the position location engineering change proposal that would effect PM TRADE's ability to purchase the quantities listed in the MILES 2000 Cope Thunder Requirement.
- (3) Fund and manage the testing of the position location change to the existing MILES 2000 individual weapon system. Field a minimum of thirty (30) position location devices.
- (4) Coordinate completion of the necessary documentation for materiel release and fielding to USARAK all applicable MILES 2000 hardware. This includes safety, environmental, and logistic support to include operator and maintenance manuals.
- (5) Provide subject matter expertise to allow the integration of the MILES 2000 devices into the Cope Thunder, after action review infrastructure.
- (6) Coordinate and program logistic support requirements of all MILES 2000 un-instrumented devices fielded at USARAK. This includes operator manuals, maintenance manuals, and concept of support, initial spares, and new equipment training.
- (7) Fund all shipping cost associated with shipping of MILES 2000 hardware to USARAK.
- (8) Coordinate and contract for, where applicable, all product improvements.

d. USAF RISPO, as the procurement lead for the instrumentation of JCSAR assets and merging of MILES-2000 and Cope Thunder data for display and debriefing will:

- (1) Upon receipt of \$2,180,000 funds, manage the acquisition, engineering, production, and life cycle support activities involved with the instrumentation of JCSAR assets, and merging of MILES 2000 and Cope Thunder data for the

maintenance manuals, support concept, initial spares, and new equipment training.

- (3) Store, issue, maintain and provide training where applicable for MILES 2000 modular GPS Manwom location packs at Eielson AFB.
- (4) Coordinate the completion of the necessary documentation to field to Eielson AFB six aircraft instrumentation packages. This includes safety, environmental, flight certification, and logistic support documentation to include operator and maintenance manuals.
- (5) Provide subject matter expertise to allow the integration of the MILES 2000/Cope Thunder devices into the Cope Thunder after action review infrastructure.
- (6) Notify all parties, should resource constraints or other circumstances reduce the capability to support the program requirements.

5. **Travel:** Each PMO will fund all travel for its personnel and contractors.
6. **Program Integrator:** PM TRADE will serve as the focal point for program management matters concerning MILES 2000 for Cope Thunder. This includes all coordination and integration activities performed in support of the program such as program reviews and system integration testing. Direct communication between the Government and all contractors associated with the program will be coordinated with the Program Management Office (PMO) managing the associated contract. Official correspondence will be sent concurrently to all participants.
7. **Terms of MOA:** This MOA is effective upon signature by the U.S. Army's Project Manager Training Devices (PM TRADE), U.S. Air Force Range Instrumentation Systems Program Office (RISPO), Headquarters Pacific Command-Air Force (PACAF), and U.S. Army Alaska (USARAK). Changes to this MOA will be made as needed by mutual consent. At a minimum, this MOA will be reviewed annually.
8. **Effective Date:** This Memorandum of Agreement shall become effective upon the approval and signature of all four parties to the agreement.